251410-1010.ST25.txt
SEQUENCE LISTING

<110> Shiuan, David

<120> Yeast with High Biotin-Productivity and the Preparation Method
       Thereof

<130> 251410-1010

<140> 09/752,957
<141> 2001-01-02

<150> TW 89120972
<151> 2000-10-07

<160> 5

<170> PatentIn version 3.3

<210> 1
<211> 1188
<212> DNA
<213> Candida utilis

<400> 1
atgtcgttta tattgactgc tattagtcgt ccgattgctc tttccacttc tagagtagct   60

tctagggcta ctctggcaac aggtgctact gctgctgcgg agatcttgga agatgtgttc   120

acggaacaaa tggaagaagt ggcttcacag gagaagaagc caaacccatt ggaatatgca   180

ttgtcagtga agacaccagt caacacctgg accaaagaag aaattaaagc tatatatgac   240

acaccactca tggacttgat gcactatgct caggtgcaac acagaaggtt ccaacaacct   300

tcagaggttc aattgtgcac tcttatgaat atcaaaactg gtggttgtac cgaggactgt   360

aagtactgtg cccaatcaca gcgttacaac actggtgtca aggctgaaag aatcatccaa   420

gttgatgagg tgattgaagc tgcaaaggag gcaaaggcca atggatctac aaggttctgt   480

atgggtgctg cttggagaga gatgaaaggt agaaagtcaa acttgaagaa aatcaaagag   540

atgatcactg ctgtccatga ccttggaatg gagagttgtg tcaccctggg aatggttgat   600

aaagaccaag ccactgaatt gaaaagtgct gggttgacgg cgtacaacca taacattgat   660

acttacaagg aacactatcc aaaggtgatc tccacaagaa gctttgatga tagattgaaa   720

acattcaaaa acgttcaagg atctggatta aaggcatgca caggtggtat tcttggtctt   780

ggtgagaccc aagaggaccg tgtatctttc ctctacacct tggccacaat ggatcagcat   840

ccagagtctc ttccaatcaa cagactggtc ccaatcaagg gcacgccaat gtatgaagaa   900

gttaagaaca agcaagttga agttgatgag attgtcagaa ccattgctac tgcaagattg   960

gtcatgccaa cgtctattat cagattggct gcaggaagat atacaatgaa agaggcagaa   1020

caggtgatgt gcttcatggc tggttgtaat gccatcttca caggtaagaa aatgctcaca   1080

acaatgtgta acggctggga tgaggataaa gccatgttgg ctaaatgggg tctgaaacca   1140

atggagagtt tcaaatacaa accaagggag gttgcattcg gtgcttga   1188

<210>   2
<211>   30
<212>   DNA
<213>   artificial sequence

<220>
<223>   primer sequence

<400>   2
gaaagtcgac tcaagatctg tcgtacttaa   30

<210>   3
<211>   21
<212>   DNA
<213>   artificial sequence

<220>
<223>   primer sequence

<400>   3
ccgcagttaa atcgacaact g   21

<210>   4
<211>   23
<212>   DNA
<213>   artificial sequence

<220>
<223>   primer sequence

<220>
<221>   misc_feature
<222>   (4)..(4)
<223>   n is a, c, g, or t

<220>
<221>   misc_feature
<222>   (6)..(6)
<223>   n is a, c, g, or t

<220>
<221>   misc_feature
<222>   (9)..(9)
<223>   R is A or G'

<220>
<221>   misc_feature
<222>   (10)..(10)
<223>   Y is T or C

<220>
<221>   misc_feature
<222>   (12)..(12)
<223>   Y is T or C

<220>
<221>   misc_feature

<222> (18)..(18)
<223> n is a, c, g, or t

<400> 4
tgtncngarg aytgyaanta ttg   23

<210> 5
<211> 20
<212> DNA
<213> artificial sequence

<220>
<223> primer sequence

<220>
<221> misc_feature
<222> (3)..(3)
<223> R is A or G'

<220>
<221> misc_feature
<222> (6)..(6)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (8)..(8)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (9)..(9)
<223> R is A or G'

<220>
<221> misc_feature
<222> (12)..(12)
<223> R is A or G'

<400> 5
gtrtcnanrt trtggttgta   20